### Lesson 3 Practice Problems

1. Draw a tape diagram to match each equation.
	1. $5\left(x+1\right)=20$
	2. $5x+1=20$
2. Select **all** the equations that match the tape diagram.
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	1. $35=8+x+x+x+x+x+x$
	2. $35=8+6x$
	3. $6+8x=35$
	4. $6x+8=35$
	5. $6x+8x=35x$
	6. $35−8=6x$
1. Point $B$ has coordinates $\left(-2,-5\right)$. After a translation 4 units down, a reflection across the $y$-axis, and a translation 6 units up, what are the coordinates of the image?
* (From Unit 1, Lesson 5.)
1. Figure 2 is a scaled copy of Figure 1.
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	1. Identify the points in Figure 2 that correspond to the points $A$ and $C$ in Figure 1. Label them $P$ and $R$. What is the distance between $P$ and $R$?
	2. Identify the points in Figure 1 that correspond to the points $Q$ and $S$ in Figure 2. Label them $B$ and $D$. What is the distance between $B$ and $D$?
	3. What is the scale factor that takes Figure 1 to Figure 2?
	4. $G$ and $H$ are two points on Figure 1, but they are not shown. The distance between $G$ and $H$ is 1. What is the distance between the corresponding points on Figure 2?
* (From Unit 2, Lesson 3.)



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